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IEEE CNF IEEE Conference Proceeding

1. **Measuring the effects of data distribution models on performance evaluation of distributed database systems**

Mukkamala, R.;
[Knowledge and Data Engineering, IEEE Transactions on](#)
Volume 1, Issue 4, Dec 1989 Page(s):494 - 507
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IEEE STD IEEE Standard

2. **Global mobility management by replicated databases in personal communication networks**

Leung, K.K.; Levy, Y.;
[Selected Areas in Communications, IEEE Journal on](#)
Volume 15, Issue 8, Oct. 1997 Page(s):1582 - 1596
Digital Object Identifier 10.1109/49.634796

[AbstractPlus](#) | [References](#) | [Full Text: PDF\(348 KB\)](#) [IEEE JNL Rights and Permissions](#)

3. **Conflict resolution and reconciliation in disconnected databases**

Phatak, S.H.; Badrinath, B.R.;
[Database and Expert Systems Applications, 1999. Proceedings. Tenth International Conference on](#)
1-3 Sept. 1999 Page(s):76 - 81
Digital Object Identifier 10.1109/DEXA.1999.795148

[AbstractPlus](#) | [Full Text: PDF\(152 KB\)](#) [IEEE CNF Rights and Permissions](#)

4. **An enhanced network architecture to support replicated HLR databases and experimental performance analysis**

Sinclair, T.; Ghosal, D.;
[Communications, 1999. ICC '99. 1999 IEEE International Conference on](#)
Volume 2, 6-10 June 1999 Page(s):1367 - 1373 vol.2
Digital Object Identifier 10.1109/ICC.1999.765565

[AbstractPlus](#) | [Full Text: PDF\(544 KB\)](#) [IEEE CNF Rights and Permissions](#)

5. **Scalable tape archiver for satellite image database and its performance analysis. Hot declustering and hot replication**

Nemoto, T.; Kitsuregawa, M.;
Mass Storage Systems, 1999. 16th IEEE Symposium on
15-18 March 1999 Page(s):59 - 71
Digital Object Identifier 10.1109/MASS.1999.829984
[AbstractPlus](#) | Full Text: [PDF\(1160 KB\)](#) IEEE CNF
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6. **Performance and fault-tolerance analysis of a replicated HLR placement in broadband signaling transport network**
Ghosal, D.; Meempat, G.; Tsong-Ho Wu;
Universal Personal Communications, 1998. ICUPC '98. IEEE 1998 International Conference on
Volume 1, 5-9 Oct. 1998 Page(s):745 - 749 vol.1
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[AbstractPlus](#) | Full Text: [PDF\(500 KB\)](#) IEEE CNF
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7. **A suite of database replication protocols based on group communication**
Kemme, B.; Alonso, G.;
Distributed Computing Systems, 1998. Proceedings. 18th International Conference on
26-29 May 1998 Page(s):156 - 163
Digital Object Identifier 10.1109/ICDCS.1998.679498
[AbstractPlus](#) | Full Text: [PDF\(240 KB\)](#) IEEE CNF
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8. **Query optimization in the ADDS multidatabase system**
Reyes, T.; Lee, W.; Olson, P.; Thomas, G.; Thompson, G.; Vassaur, B.;
Applied Computing, 1990., Proceedings of the 1990 Symposium on
5-6 April 1990 Page(s):177 - 180
Digital Object Identifier 10.1109/SOAC.1990.82164
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9. **Experiences with two high availability designs [replication techniques]**
Bhide, A.;
Management of Replicated Data, 1992., Second Workshop on the
12-13 Nov. 1992 Page(s):51 - 54
Digital Object Identifier 10.1109/MRD.1992.242618
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10. **Data replication between two geographically remote sites across a wide area network**
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Distributed Databases, IEE Colloquium on
11 Dec 1992 Page(s):3/1 - 3/3
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11. **Declustering and load-balancing methods for parallelizing geographic information systems**
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Knowledge and Data Engineering, IEEE Transactions on
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[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1100 KB\)](#) IEEE JNL
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12. **Real-time data management with clock-less reliable broadcast protocols**
Verissimo, P.;
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□ 13. **Distributed selective dissemination of information**
Yan, T.W.; Garcia-Molina, H.;
[Parallel and Distributed Information Systems, 1994, Proceedings of the Third Conference on](#)
28-30 Sept. 1994 Page(s):89 - 98
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March, S.T.; Rho, S.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 7, Issue 2, April 1995 Page(s):305 - 317
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2. **Query optimization in the ADDS multidatabase system**

Reyes, T.; Lee, W.; Olson, P.; Thomas, G.; Thompson, G.; Vassaur, B.;
Applied Computing, 1990., Proceedings of the 1990 Symposium on
5-6 April 1990 Page(s):177 - 180
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4. **Performance of relational database management systems in intelligent mobile environments**

Gallersdorfer, R.; Klabunde, K.;
Intelligent Network Workshop, 1996. IN '96., IEEE
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5. **Performance evaluation of the quorum consensus replication method**

Helal, A.; Bhargava, B.;
Computer Performance and Dependability Symposium, 1995. Proceedings., In
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Digital Object Identifier 10.1109/CPDS.1995.395835

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1. Database replication in a high up-time environment

Williamson, D.A.;

[Aerospace Applications Conference, 1996. Proceedings., 1996 IEEE](#)

Volume 3, 3-10 Feb. 1996 Page(s):337 - 346 vol.3

Digital Object Identifier 10.1109/AERO.1996.496073

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2. Requirements and design of replication services for a time series manager

Dreyer, W.; Schmidt, D.; Dittrich, A.K.; Bleichenbacher, M.;

[Scientific and Statistical Database Systems, 1996. Proceedings., Eighth International Conference on](#)

18-20 June 1996 Page(s):208 - 215

Digital Object Identifier 10.1109/SSDM.1996.506063

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3. Scheduling the allocation of data fragments in a distributed database environment using a machine learning approach

Chaturvedi, A.R.; Choubey, A.K.; Jinsheng Roan;

[Engineering Management, IEEE Transactions on](#)

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4. Database fragmentation and allocation: an integrated methodology and conceptual framework

Tamhankar, A.M.; Ram, S.;

[Systems, Man and Cybernetics, Part A, IEEE Transactions on](#)

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5. MIRROR: a state-conscious concurrency control protocol for replicated databases

Ming Xiong; Ramamritham, K.; Haritsa, J.; Stankovic, J.A.;

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- 6. Performance and fault-tolerance analysis of a replicated HLR placement in broadband signaling transport network**
Ghosal, D.; Meempat, G.; Tsong-Ho Wu;
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- 7. Replication control for fault-tolerance in distributed real-time database systems**
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[Aerospace Conference, 1998. Proceedings., IEEE](#)
Volume 4, 21-28 March 1998 Page(s):73 - 81 vol.4
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- 8. Mobile computing in military ambulatory care**
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[Computer-Based Medical Systems, 1997. Proceedings., Tenth IEEE Symposium on](#)
11-13 June 1997 Page(s):58 - 63
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- 9. Replication control for distributed real-time database systems**
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- 10. Measuring the effects of data distribution models on performance evaluation of distributed database systems**
Mukkamala, R.;
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- 11. Analysis of replication in distributed database systems**
Cicani, B.; Dias, D.M.; Yu, P.S.;
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- 12. Independent recovery in large-scale distributed systems**
Triantafiliou, P.;
[Software Engineering, IEEE Transactions on](#)
Volume 22, Issue 11, Nov. 1996 Page(s):812 - 826

- 13. Proceedings of the International Symposium on Distributed Objects and Distributed Objects and Applications, 1999. Proceedings of the International S**
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- 14. Highly available process support systems: implementing backup mechanisms**
Hagen, C.; Alonso, G.;
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- 16. Proceedings. 19th IEEE International Conference on Distributed Computing Systems (Cat. No.99CB37003)**
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31 May-4 June 1999
Digital Object Identifier 10.1109/ICDCS.1999.776493
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- 17. An active replication scheme for mobile data management**
Shiow-Yang Wu; Yu-Tse Chang;
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Digital Object Identifier 10.1109/DASFAA.1999.765746
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- 18. Protocol for groups of pseudo-active replicated objects**
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18-20 Nov. 1999 Page(s):35 - 41
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- 19. Comparison of replication of the user mobility profile with caching for re-accesses**
Palat, S.K.; Andresen, S.;
Personal Wireless Communications, 1997 IEEE International Conference on

- 20. Specialized N-modular redundant processors in large-scale distributed systems**
I-Ling Yen;
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- 22. Data replication in Mariposa**
Sidell, J.; Aoki, P.M.; Sah, A.; Staelin, C.; Stonebraker, M.; Yu, A.;
[Data Engineering, 1996. Proceedings of the Twelfth International Conference on](#)
26 Feb.-1 March 1996 Page(s):485 - 494
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- 23. Design and evaluation of a window-consistent replication service**
Mehra, A.; Rexford, J.; Hock-Siong Ang; Jahanian, F.;
[Real-Time Technology and Applications Symposium, 1995. Proceedings](#)
15-17 May 1995 Page(s):182 - 191
Digital Object Identifier 10.1109/RTTAS.1995.516215
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- 24. Performance evaluation of the quorum consensus replication method**
Helal, A.; Bhargava, B.;
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Digital Object Identifier 10.1109/IPDS.1995.395835
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- 25. 9th International Conference on Distributed Computing Systems (Cat. No**
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1. **Deferred maintenance of replicated objects in single-site databases**

Teuhola, J.;

[Database and Expert Systems Applications, 1996. Proceedings., Seventh International Workshop on](#)

9-10 Sept. 1996 Page(s):476 - 481

Digital Object Identifier 10.1109/DEXA.1996.558597

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2. **Group communication as an infrastructure for distributed system management**

Amir, E.; Breitgand, D.; Chockler, G.V.; Dolev, D.;

[Services in Distributed and Networked Environments, 1996., Proceedings of Tenth International Workshop on](#)

3-4 June 1996 Page(s):84 - 91

Digital Object Identifier 10.1109/SDNE.1996.502450

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3. **Integration of diverse hypermedia link servers using request routing**

De Roure, D.; Walker, N.; Carr, L.;

[Database and Expert Systems Applications, 1999. Proceedings., Tenth International Conference on](#)

1-3 Sept. 1999 Page(s):667 - 671

Digital Object Identifier 10.1109/DEXA.1999.795264

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4. **Modeling and optimization of complex database queries in a shared-nothing architecture**

Duppel, N.;

[Parallel and Distributed Processing, 1991. Proceedings of the Third IEEE Symposium on](#)

2-5 Dec. 1991 Page(s):52 - 59

Digital Object Identifier 10.1109/SPDP.1991.218297

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Teuhola, J.;

[Database and Expert Systems Applications, 1996. Proceedings., Seventh International Workshop on](#)

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Digital Object Identifier 10.1109/DEXA.1996.558597

[AbstractPlus](#) | Full Text: [PDF\(576 KB\)](#) [IEEE CNF Rights and Permissions](#)**IET CNF** IET Conference Proceeding**IEEE STD** IEEE Standard **2. Modeling and optimization of complex database queries in a shared-noth**

Duppel, N.;

[Parallel and Distributed Processing, 1991. Proceedings of the Third IEEE Symposium on](#)

2-5 Dec. 1991 Page(s):52 - 59

Digital Object Identifier 10.1109/SPDP.1991.218297

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Patents

Patents 1 - 10 on **replication relational databases**. (0.08 seconds)

Asynchronous replication of data changes by distributed update requests

US Pat. 5261094 - Filed Apr 8, 1991 - International Business Machines Corporation

In particular, a method for synchronizing changes to **relational databases** is described. 2. Background Information both machines are updated to indicate the ...

Methods and systems for object-based relational distributed databases

US Pat. 5560005 - Filed Feb 25, 1994 - ActaMed Corp.

The duplicative storage of information 5 in autonomous **databases** is inefficient
... The **replication** service keeps the multiple copies updated by replicating ...

Computer manufacturing system architecture with enhanced software distribution functions

US Pat. 6202070 - Filed Dec 31, 1997 - Compaq Computer Corporation

The choice of a **relational** database model managed by Microsoft's SQL ... The master PRISM database 110 **replication** to master site **databases** and their ...

Method and apparatus for implementing a hierarchical database management system (HDBMS) using a ...

US Pat. 5974407 - Filed Sep 29, 1997

The Prior Art for using hierarchical and **relational databases** together fall in three ... and **replication** technologies are used for the data synchronization. ...

Independent distributed database system

US Pat. 5924094 - Filed Nov 1, 1996 - Current Network Technologies Corporation

Currently there are two main approaches to sharing **relational databases**: traditional distributed **databases**, and traditional **replication** systems. ...

Method and system for object-based relational distributed databases

US Pat. 5724575 - Filed Jul 1, 1996 - ActaMed Corp.

The duplicative storage of information 10 in autonomous **databases** is ... and **replication** (in which the entire ID table is replicated on all nodes). ...

Object oriented data store integration environment for integration of object oriented databases ...

US Pat. 5542078 - Filed Sep 29, 1994 - Ontos, Inc.

Gateways do not provide unified access to disparate **relational** data stores through ... and problems with data **replication**, both of which require substantial ...

Method and apparatus for peer-to-peer data replication including handling exceptional ...

US Pat. 5737601 - Filed Jan 16, 1997 - Oracle Corporation

The system PEER DATA **REPLICATION** INCLUDING includes the associated ... a method abandoned. for refreshing multicolumn tables in a **relational** database. ...

Data replication in data warehousing scenarios

US Pat. 6438538 - Filed Oct 7, 1999 - International Business Machines Corporation

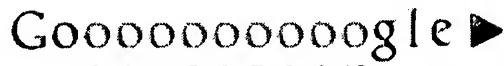
Data **replication** enables use of these applications by mapping, reformatting, and delivering data from legacy environments to **relational databases** elsewhere. ...

[E-mail filter and method thereof](#)

US Pat. 6421709 - Filed Jul 7, 1999 - Accepted Marketing, Inc.

The Spam and Submittal Filters are both stored in **relational databases**. ...

the Collaborative Filter can utilize those products' **replication** technology to ...

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Patents

Patents 11 - 20 on **replication relational databases**. (0.03 seconds)

Simplified interface for relational database access using open database connectivity

US Pat. 6065002 - Filed Oct 31, 1996 - Systems and Computer Technology Corporation

Relational databases have brought significant technological benefits to business and industry. ... This method requires **replication** of the data. ...

Method and apparatus for peer-to-peer data replication

US Pat. 5806075 - Filed Jan 14, 1997 - Oracle Corporation

METHOD AND APPARATUS FOR PEER-TO- PEER DATA REPLICATION This is a ... , discloses a method for refreshing multicolumn tables in a **relational database**. ...

Remote log based replication solution

US Pat. 6622152 - Filed May 9, 2000 - International Business Machines Corporation

In one exemplary 5 environment, the **replication** technique of the present ...
log 306, and disk drives, that store one or more **relational databases**. ...

Channel configuration program server architecture

US Pat. 6092189 - Filed Apr 30, 1998 - Compaq Computer Corporation

Of course, **replication** to master site **databases** 112 can be accomplished ...

Relational database management systems, such as PRISM and CCP are able to ...

Techniques for peer-to-peer replication of objects in a relational database

US Pat. 6889229 - Filed Sep 28, 2001 - Oracle International Corporation

BEGIN REPLICATION PROCESS DETERMINE THAT A DATABASE OBJECT INCLUDES A USER-DEFINED OBJECT INVOKE A DATABASE ROUTINE TO COPY TO THE NEW NODE DATA DEFINING ...

Apparatus for applying analysis rules to data sets in a relational database to generate a ...

US Pat. 5537590 - Filed Aug 5, 1993

A few existing systems would allow the **replication** of the operations of this ...
summary reports from huge amounts of information stored in **databases**. ...

Voice over data telecommunications network architecture

US Pat. 6614781 - Filed Nov 20, 1998 - Level 3 Communications, Inc.

This permits pulling back transactions, also known as "rolling back" a **replication/**
update, so updates will occur to all of or none of the **databases** ...

Preforming concurrent transactions in a replicated database environment

US Pat. 5781910 - Filed Sep 13, 1996 - Stratus Computer, Inc.

318. such as those manufactured by 15 to guarantee consistent **replication** of data.
non-replicated **relational database management system** invention is to ...

Enterprise data movement system and method which maintains and compares edition levels for ...

US Pat. 6029178 - Filed Mar 31, 1998 - BMC Software

During data movement or **replication** operations, data will need to be ... Data is

often distributed among the components and stored in **relational databases** ...

Independent distributed database system

US Pat. 6446092 - Filed Mar 15, 1999 - PeerDirect Company

The distributed **relational** database system as claimed in claim 41, wherein said means for propagating comprises **replication** means for replicating selected ...

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Patents

Patents 21 - 30 on replication relational databases. (0.57 seconds)

Relational database synchronization method and a recording medium storing a program therefore

US Pat. 6374262 - Filed Sep 1, 1998 - Fujitsu Limited

In order to carry out the **replication**, data write into the **databases** held by the
... a 50 server holding master data of a **relational** database and portable ...

Method and apparatus for providing database system replication in a mixed propagation environment

US Pat. 5937414 - Filed Feb 28, 1997 - Oracle Corporation

2 is a block diagram of an exemplary mixed propagation **replication** system; FIG.
... The body of data may be, for example, a table in a **relational** database. ...

Automated system and method for customized and personalized presentation of products and ...

US Pat. 6349290 - Filed Jun 30, 1999 - Citibank, N.A.

Oracle has a mature 55 **relational** DBMS engine, Oracle 8.0. ... which allows 60
access and **replication** of remote **databases**, including Oracle **databases** of ...

System and method for controlling access to data entities in a computer network

US Pat. 5941947 - Filed Aug 18, 1995 - Microsoft Corporation

Each service group runs a particu- 20 transaction **replication** services ...

For example, each appli- defining, updating and querying **relational databases**. ...

Apparatus and method for coordinating logical data replication with highly available data ...

US Pat. 7177886 - Filed Feb 7, 2003 - International Business Machines Corporation

In the data distribution **replication** system, an object at the critical database node
... A transaction performed in the **relational** database is identified. ...

Automated query optimization method using both global and parallel local optimizations for ...

US Pat. 4769772 - Filed Feb 28, 1985 - Honeywell Bull, Inc.

6, June 1970, which is incorporated herein by reference, 60 because the **relational**
data model is convenient for describing the distribution and **replication** ...

Method and system for data replication

US Pat. 6615223 - Filed Feb 29, 2000 - Oracle International Corporation

If this 55 approach is used in a **relational** database system, each participating
site in the **replication** environment has the same schema organization for the ...

Federated information management (FIM) system and method for providing data site filtering and ...

US Pat. 5634053 - Filed Aug 29, 1995 - Hughes Aircraft Company

... For each of the enumerated local sites, the local execution **replication** at
any time. ... common features of **relational databases** such as execution ...

System and method for handling backout processing during capture of changed data in an ...

US Pat. 6092086 - Filed Mar 31, 1998 - BMC Software

During data movement or **replication** operations, data will need to be ... Data is often distributed among the components and stored in **relational databases** ...

Complied objective referential constraints in a **relational** database having dual chain ...

US Pat. 5133068 - Filed Aug 28, 1991 - International Business Machines Corporation

Alternatively, the attributes of the foreign key fields could have been replicated in the relationship descriptor, but such **replication** is considered to be ...

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Patents

Patents 31 --40 on replication relational databases. (0.06 seconds)

Data replication for front office automation

US Pat. 6532479 - Filed May 28, 1999 - Oracle Corp.

In a distributed database system using data **replication**, ... In this example, **relational database** 1204 contains a customers master table 1212 and an orders ...

Apparatus and method for providing users with transparent integrated access to heterogeneous ...

US Pat. 5596744 - Filed May 20, 1993 - Hughes Aircraft Company

... access data go from multiple **Relational** database Management Systems (RDBMS), ... Fragment **Replication**. The Optimizer decides which fragments need to be ...

Method of maintaining a network of partially replicated database system

US Pat. 5873096 - Filed Oct 8, 1997 - Siebel Systems, Inc.

Background **Relational databases** are a commonly-employed data structure for ... in such a way that the degree of **replication** may be easily changed without ...

Automatic pruning for log-based replication

US Pat. 6473776 - Filed Aug 2, 1999 - International Business Machines Corporation

Description of Related Art 20 Database **replication** refers to the process of ...

In general, **relational databases** store updates in a journal (hereinafter ...

Replica routing

US Pat. 6052718 - Filed Jan 7, 1997 - Sightpath, Inc

... 42, 43, 44 can be dynamically maintained by a network-based **replication** method, ... including **relational databases**, multimedia data, video files, ...

In-line triggers

US Pat. 5926819 - Filed May 30, 1997 - Oracle Corporation

Some **databases** implement **replication** by defining triggers when DML statements are executed, for example, when a user inserts, modifies, ...

Distributed read/write replication with primary copy first write and primary copy transfer ...

US Pat. 5737738 - Filed Mar 26, 1996 - International Business Machines Corporation

"A Competitive Dynamic Data **Replication** Algorithm", TF.EF. Conf. No. 9, Apr. 19, 1993 pp. 310-317. E. Babb, "Implementing a **Relational** Database by Means of ...

Method of synchronizing independently distributed software and database schema

US Pat. 6324693 - Filed Aug 17, 1999 - Siebel Systems, Inc.

Background **Relational databases** are a commonly-employed data structure for ... in such a way that the degree of **replication** may be easily changed without ...

Method and apparatus for fault tolerant call processing

US Pat. 5974114 - Filed Sep 25, 1997 - AT&T Corp

The static data **replication** module receives static call data, and stores the

static call data in a static call data profile in the **relational database**. ...

Techniques for adding a master in a distributed database without suspending database operations ...

US Pat. 7039669 - Filed Sep 28, 2001 - Oracle Corporation

Often a **replication** group is created for SUSPENDING DATABASE OPERATIONS AT a subset of the database objects in one or more **databases** EXTANT MASTER SITES ...

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Patents

Patents 51 - 60 on **replication relational databases**. (0.06 seconds)

[Getfield function for a relational workgroup platform using keyword and workflow databases](#) ...

US Pat. 5855014 - Filed Oct 31, 1996 - Application Partners, Inc.

With **replication**, changes to each database replica are distributed to all ...

databases of a workgroup platform, a **Relational Workgroup Platform (RWP)** is ...

[Managing information in an integrated development architecture framework](#)

US Pat. 6662357 - Filed Aug 31, 1999 - Accenture LLP

The current trend seems to be for object-**relational databases**, with vendors ...

stored procedures, **replication**, application logic, application generation, ...

[Mid-tier-based conflict resolution method and system usable for message synchronization and ...](#)

US Pat. 6983293 - Filed Jul 24, 2002 - International Business Machines Corporation

... communication environments for message synchronization and **replication** ...

devices, such as disk drives, that store one or more **relational databases**. ...

[Collision avoidance in bidirectional database replication](#)

US Pat. 6662196 - Filed Mar 16, 2001 - ITI, Inc.

The scope of the present invention is not limited to **relational database** ...

process locally initiated transactions and that post transactions to **databases**. ...

[Enterprise data movement system and method including opportunistic performance of utilities and ...](#)

US Pat. 6035307 - Filed Mar 30, 1998 - BMC Software

Finally, such tools typically focus on only part of the **replication** ... Data is often distributed among the components and stored in **relational databases**. ...

[Data replication security](#)

US Pat. 6792540 - Filed May 28, 1999 - Oracle International Corporation

2 depicts an exemplary snapshot **replication** environment for a company's sales

... In this example, **relational** database 204 contains a customers master table ...

[Prioritized merging for full-text index on relational store](#)

US Pat. 7007015 - Filed May 1, 2002 - Microsoft Corporation

Relational Databases Database management systems (dbmss) such as Oracle 35 ...

Replication, ie, keeping distributed **databases** synchronized by copying the ...

[Method of maintaining a network of partially replicated database system](#)

US Pat. 6189011 - Filed Dec 23, 1998 - Siebel Systems, Inc.

Background **Relational databases** are a commonly employed data structure for ...

in such a way that the degree of **replication** may be easily changed without ...

[Asynchronous coordinated commit replication and dual write with replication transmission and ...](#)

US Pat. 7177866 - Filed Sep 17, 2003 - Gravic, Inc.

40 The scope of the present invention is not limited to **relational database** ...
locally initiated transactions and that post transactions to **databases**. ...

Agent for replicating data based on a client defined replication period

US Pat. 5884324 - Filed Jul 23, 1996 - International Business Machines Corporation

In current systems, the data **replication** function is implemented as follows: the

... logs, and **relational** joins) required to allow the client to update the ...

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Patents

Patents 1 - 10 on **replication time databases**. (0.29 seconds)

Asynchronous replication of data changes by distributed update requests

US Pat. 5261094 - Filed Apr 8, 1991 - International Business Machines Corporation
logical indicator that record has been deleted TLU=time last updated. ... a method
for replicating changes to one of the **databases** comprising the steps of: ...

Independent distributed database system

US Pat. 5924094 - Filed Nov 1, 1996 - Current Network Technologies Corporation
According to this aspect of the invention, at **replication time** and before replacing
a given fragment the **replication** engine checks its validity. ...

Synchronization and replication of object databases

US Pat. 5684984 - Filed Sep 29, 1994 - Apple Computer, Inc.
After the object is C++, type information is absent at run **time**. ... Because run-time
type Objects may have sub-objects that are not Documents run-time type ...

Concurrently applying redo records to backup database in a log sequence using single queue ...

US Pat. 5170480 - Filed Sep 25, 1989 - International Business Machines Corporation
In the prior art, database **replication** is exemplified in the use of ... 40 between
the **databases**, and utilize database serialization in the form of locking. ...

Preforming concurrent transactions in a replicated database environment

US Pat. 5781910 - Filed Sep 13, 1996 - Stratus Computer, Inc.
This involves two forced disk backup approaches to database **replication**, ...
vary across the system by replacing a failed primary with one of the **databases**. ...

Time based expiration of data objects in a store and forward replication enterprise ...

US Pat. 5794253 - Filed Jul 12, 1996 - Microsoft Corporation
In **replication** enterprise, 1S implement the concept of **time** based expiration.
ment where data is replicated among various servers ...

Method and apparatus for peer-to-peer data replication

US Pat. 5806075 - Filed Jan 14, 1997 - Oracle Corporation
METHOD AND APPARATUS FOR PEER-TO- PEER DATA **REPLICATION** This is a ...
All transactions (eg, logical units of work) are **time** stamped to assure access to the ...

Method and apparatus for peer-to-peer data replication including handling exceptional ...

US Pat. 5737601 - Filed Jan 16, 1997 - Oracle Corporation
The system PEER DATA **REPLICATION** INCLUDING includes the associated ... , and (3) "time
This invention relates to the field of data **replication**. s(amp , ...

System for merging virtual partitions of a distributed database

US Pat. 4853843 - Filed Dec 18, 1987 - Tektronix, Inc.
Optionally the defining user may specify a default **replication** factor for the

... in "Multiple Version Management of Hypothetical Databases" published 1985 ...

Bidirectional database replication scheme for controlling ping-ponging

US Pat. 6122630 - Filed Jun 8, 1999 - ITI, Inc.

Bidirectional **replication** simplifies the manual procedures necessary to manage

... ("Latency" is defined as the **time** that the commit takes place on one ...

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Patents

Patents 11 - 20 on **replication time databases**. (0.04 seconds)

Independent distributed database system

US Pat. 6446092 - Filed Mar 15, 1999 - PeerDirect Company

The Tax table stores the core information that does not change over **time** ...
data was the most recent (if a **replication time**-stamp is being stored) or at ...

System and method for database update replication

US Pat. 5995980 - Filed Jul 23, 1996

Databases are often replicated to reduce contention or access to a primary ...
while consuming significant amounts of processing resources and **time**. ...

Configurable conflict resolution in a computer implemented distributed database ...

US Pat. 5806074 - Filed Mar 19, 1996 - Oracle Corporation

The asynchronous **replication** method provides a means for balancing network traffic
over **time**. The asynchronous method also provides an effective means for ...

Method of buffering data objects in a database

US Pat. 5680573 - Filed Jul 12, 1994 - Sybase, Inc.

Each **replication** of the buffer cache has the same name and same memory pool ...
The hash table points the access methods to the proper **replication** of the ...

Methods and systems for object-based relational distributed databases

US Pat. 5560005 - Filed Feb 25, 1994 - ActaMed Corp.

The duplicative storage of information in autonomous **databases** is inefficient
... The **replication** service keeps the multiple copies updated by replicating ...

Remote duplicate database facility with database replication support for online DDL operations ...

US Pat. 5745753 - Filed Jan 24, 1995 - Tandem Computers, Inc.

Finally, If so, a current timestamp indicative of the current **time** is the ...
Every **time** the extractor procedure encounters a is updated to indicate that ...

Distributed database system and method of detecting contention in data update involved in ...

US Pat. 5946689 - Filed Nov 26, 1997 - Hitachi, Ltd.

... and **databases** of the remaining database systems 4Q being produced by ...
number history associated with said data each **time** said 55 data is updated; ...

Method and apparatus for workgroup information replication

US Pat. 5757669 - Filed May 31, 1995 - Netscape Communications Corporation

The **replication** agent uses a process This state information is maintained at the
... The date and **time** stamp is used by the 35 "arrived" when it is first ...

Record tracking in database replication

US Pat. 5819272 - Filed Jul 12, 1996 - Microsoft Corporation

Replication conflicts occur when a message is changed on a plurality of servers

at roughly the same **time**, between replications (lists of predecessor change ...

System, method and article of manufacture for communications utilizing calling plans in a ...

US Pat. 5867495 - Filed Nov 18, 1996 - MCI Communications Corporations

... of distributed **databases** and 45 distributed data access with the following functionality: **Replication** and Synchronization; Partitioning of Data Files; ...

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Patents

Patents 21 - 30 on **replication time databases**. (0.07 seconds)

Method and system for distributed caching, prefetching and replication

US Pat. 6167438 - Filed May 22, 1997 - Trustees of Boston University

... and/or implement several fea- more than a predetermined number of **time epochs**

... The cache servers 16 can also be used to host replicas of **databases**, ...

Method and system for data replication

US Pat. 6615223 - Filed Feb 29, 2000 - Oracle International Corporation

Synchronous **replication** typically results more overhead 40 than asynchronous **replication**. More **time** is required to perform synchronous **replication** since a ...

Computer system with a plurality of database management systems

US Pat. 6754679 - Filed Mar 30, 2001 - Hitachi, Ltd.

The requested refresh (**replication time**) interval can be set up in data refresh manager 284, for example. To choose the technique to use, a comparison can ...

Computer manufacturing system architecture with enhanced software distribution functions

US Pat. 6202070 - Filed Dec 31, 1997 - Compaq Computer Corporation

This table holds the **time** it was last run so that future invocations may know if its

... mechanism increases the amount of data transferred via **replication**, ...

Method and apparatus for replicated transaction consistency

US Pat. 6012059 - Filed Aug 21, 1997 - Dataxel Corporation

These alternatives permit the replica site to establish the current point in **time** among the **replication** packages received from the primary sites. ...

Allowing inconsistency in a distributed client-server application

US Pat. 5751958 - Filed Jun 30, 1995 - PeopleSoft, Inc.

Generally, **replication** can be used effectively more digital computers. The user independence is enabled with **databases** that can be partitioned into subsets ...

Federated information management (FIM) system and method for providing data site filtering and ...

US Pat. 5634053 - Filed Aug 29, 1995 - Hughes Aircraft Company

... For each of the enumerated local sites, the local execution **replication** at any **time**. ... common features of relational **databases** such as execution ...

Web serving system that coordinates multiple servers to optimize file transfers

US Pat. 5991809 - Filed Jul 25, 1997 - Clearway Technologies, LLC

Then, the serving **time** is calculated by considering the transmission **time** of the ... Then, the first **replication** server is obtained as shown in step 158, ...

Intelligent page store for concurrent and consistent access to a database by a transaction ...

US Pat. 5317731 - Filed Feb 25, 1991 - International Business Machines Corporation

... shown by **replication** of the database pages and hence at minimal the exact ...

Throughout this time Q1 and Q2 must have Transaction Database Log 6, ...

Method and apparatus for database fault tolerance with instant transaction replication using off ...

US Pat. 6421688 - Filed Mar 2, 2000 - Parallel Computers Technology, Inc.

Hardware **replication** technologies can resolve hardware related problems, ...

and redo commands will pass back and forth between the RDF and local **databases**. ...

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Patents

Patents 1 - 9 on **replication relational joining keys**. (0.09 seconds)

Query optimization by transparently altering properties of relational tables using materialized ...

US Pat. 6339769 - Filed Sep 14, 1998 - International Business Machines Corporation
... the processors 102 in the MPP computer system 102 via the partitioning **keys**
denned above. ... making **replication** across all processors 102 unattractive. ...

Set containment join operation in an object/**relational** database management system

US Pat. 6728694 - Filed Apr 17, 2000 - NCR Corporation
Relaxing this assumption and considering faster algorithms for **joining** partitions
... 4.2.2 **Joining** Phase During the **joining** phase, each partition of R is ...

Data **replication** in data warehousing scenarios

US Pat. 6438538 - Filed Oct 7, 1999 - International Business Machines Corporation
Whenever a **replication** gate expressions and grouping clauses. ... Apply components
can also read data directly 20 increasing **relational** database stored in ...

Sorted-paged retrieval of hierarchical data from **relational** databases

US Pat. 6898593 - Filed Feb 5, 2002 - i2 Technologies US, Inc.
A **relational** database is a database organized as a collection of tables. ...
partial de-normalization or partial **replication** of information to improve the ...

Parallel query optimization strategies for replicated and partitioned tables

US Pat. 6625593 - Filed Sep 13, 1999 - International Business Machines Corporation
... that summarize important **relational** characteristics (eg, tables accessed, ...
distribution 35 function denoting **replication**, and no distribution key. ...

Method and apparatus for object-oriented access to a **relational** database management system ...

US Pat. 6968344 - Filed Feb 5, 2002 - Tata Consultancy Services Limited
... of data records stored in a **relational** database in an object oriented way ...
schema is one to one class to table with **replication** in the sub-classes. ...

Secure network system and method for transfer of medical information

US Pat. 7028182 - Filed Jan 26, 2000 - Nexsys Electronics, Inc.
This information may be included in the **relational** database 28, ... such as
synchronous asymmetric **replication** (SAR) and CORBA techniques to update the ...

System and method for metadirectory differential updates among constituent heterogeneous data ...

US Pat. 7107297 - Filed Jan 10, 2002 - International Business Machines Corporation
... nor is it just a directory synchronization and **replication** tool. ... data from
each data source in a **relational** database, preferably in a DB2 database. ...

Subscription and notification with database technology

US Pat. 6826560 - Filed Jun 30, 2000 - International Business Machines Corporation
The processing of this statement per se by a **relational** database system is ...
An interesting application of this approach is the periodic **replication** of ...

replication relational joining keys

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replication correlate join keys

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Patents

Patents 1 - 1 on **replication correlate join keys**. (0.09 seconds)

[Set containment join operation in an object/relational database management system](#)

US Pat. 6728694 - Filed Apr 17, 2000 - NCR Corporation

SET CONTAINMENT JOIN OPERATION IN AN OBJECT/RELATIONAL DATABASE ... in order to minimize the impact of excessive **replication** and improve performance. ...

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Patents

Patents 1 - 10 on replication database name joining key. (0.04 seconds)

Database partial replica generation system

US Pat. 5758337 - Filed Aug 8, 1996 - Microsoft Corporation

401 and 501, **database schema** 600 lists only the table **name** and the column, or field, ... 14-21 are used below to describe in detail the partial **replication** ...

Method and apparatus for managing clustered computer systems

US Pat. 6393485 - Filed Oct 27, 1998 - International Business Machines Corporation

The timer value is defined in the cluster configuration **database** and may be ... its timestamp in the first phase to force a **database replication**, (3) The ...

Well-known transactions in data replication

US Pat. 7143123 - Filed Jan 9, 2004 - Microsoft Corporation

In a peer-to-peer scenario, **joining** is on one LSN 10 watermark for every ... originating server **name** (OSN) and originating publisher **database name** (...

Managing the size and accessibility of a name service

US Pat. 6594702 - Filed Feb 25, 1999 - Oracle International Corporation

When a **name service** daemon is **joining** an existing **name service**, **name service** ...

For example, it may be desirable to publish information about a **database** ...

Query optimization by transparently altering properties of relational tables using materialized ...

US Pat. 6339769 - Filed Sep 14, 1998 - International Business Machines Corporation

... CUST) PARTITIONING KEY (ACCTID); 40 In this application, all tables in this **database** are ... making **replication** across all processors 102 unattractive. ...

System and method for metadirectory differential updates among constituent heterogeneous data ...

US Pat. 7107297 - Filed Jan 10, 2002 - International Business Machines Corporation

A human resources **database** may contain a first entry (22) for an employee "Clark Kent", including his employee number, surname, first **name**, title, ...

Subscription and notification with database technology

US Pat. 6826560 - Filed Jun 30, 2000 - International Business Machines Corporation

An interesting application of this approach is the periodic **replication** of modified ... and the causing tuple, as eg its primary **key** into a separate queue. ...

Uniform name space referrals with location independence

US Pat. 6947940 - Filed Jul 30, 2002 - International Business Machines Corporation

2A-2B, thereby **joining** the separate **name spaces**. ... automounter implementations is that transparent migration and **replication** cannot be supported without ...

Method for content-aware redirection and content renaming

US Pat. 6954456 - Filed Dec 14, 2001 - AT & T Corp.

The **key** criteria we are concerned with in this writeup however is the content

that is being ... This could lead to a great deal of **database replication**, ...

Secure network system and method for transfer of medical information

US Pat. 7028182 - Filed Jan 26, 2000 - Nexsys Electronics, Inc.

This information may be included in the relational **database** 28, ... **replication** (SAR) and CORBA techniques to update the **database** with new information. ...

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Patents

Patents 1 - 10 on replication database name joining key. (0.04 seconds)

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US Pat. 6954456 - Filed Dec 14, 2001 - AT & T Corp.

The **key** criteria we are concerned with in this writeup however is the content

that is being ... This could lead to a great deal of **database replication**, ...

Secure network system and method for transfer of medical information

US Pat. 7028182 - Filed Jan 26, 2000 - Nexsys Electronics, Inc.

This information may be included in the relational **database** 28, ... **replication** (SAR) and CORBA techniques to update the **database** with new information. ...

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Patents

Patents 11 - 11 on replication database name joining key. (0.07 seconds)

Multicasting in ATM-networks

US Pat. 7110403 - Filed Sep 6, 1999 - Teliasonera AB

... as the **key** and the ATM address of the corresponding core, if it has one. ...
of the core; and **replication** of the core for fault tolerance reasons. ...



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Patents

Patents 1 - 10 on replication multiple databases. (0.05 seconds)

Methods and systems for object-based relational distributed databases

US Pat. 5560005 - Filed Feb 25, 1994 - ActaMed Corp.

The duplicative storage of information 5 in autonomous **databases** is inefficient

... The **replication** service keeps the **multiple** copies updated by replicating ...

System and method for synchronizing data in multiple databases

US Pat. 6516327 - Filed Sep 24, 1999 - International Business Machines Corporation

For example, replicas 30 may differ prior to **replication** between them. Accordingly, system 10 ensures that secondary **databases** 32, main database 28 and ...

Apparatus and method for providing users with transparent integrated access to heterogeneous ...

US Pat. 5596744 - Filed May 20, 1993 - Hughes Aircraft Company

... 10 provides the users with a uniform interface to access **multiple databases**.

... Fragment **Replication**. The Optimizer decides which fragments need to be ...

System and method for database update replication

US Pat. 5995980 - Filed Jul 23, 1996

Databases are often replicated to reduce contention or access to a primary ...

The **multiple** queued transactions implicit in update **replication** consume ...

Bidirectional database replication scheme for controlling ping-ponging

US Pat. 6122630 - Filed Jun 8, 1999 - ITI, Inc.

In homogeneous database **replication**, the two **databases** in the pair are identical.

... 10 can have **multiple** target **databases** 16 in a combination of formats. ...

Method and apparatus for workgroup information replication

US Pat. 5757669 - Filed May 31, 1995 - Netscape Communications Corporation

The **replication** agent corresponds with other sites **databases** where **multiple** copies of the same database are The **replication** agent for each site determines ...

Synchronization and replication of object databases

US Pat. 5684984 - Filed Sep 29, 1994 - Apple Computer, Inc.

The method of claim 2, wherein, at each of the plurality of sites and at the central location, **multiple** program entities, including information items, ...

Configurable conflict resolution in a computer implemented distributed database ...

US Pat. 5806074 - Filed Mar 19, 1996 - Oracle Corporation

A conventional distributed database technology is **replication**. Using this methodology, **multiple** replicas or instantiations of data structures or programs ...

System and method for replication of distributed databases that span multiple primary nodes

US Pat. 6785696 - Filed Jun 1, 2001 - Hewlett-Packard Development Company, L.P.

... **replication** ... **multiple** ...

Method and apparatus for peer-to-peer data replication including handling exceptional ...

US Pat. 5737601 - Filed Jan 16, 1997 - Oracle Corporation

... copies data resident at **multiple** received from customer 11 at site B (ie, ...

Before **replication**, the two **databases** reflect only orders table 202B ...

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Patents

Patents 11 - 20 on **replication multiple databases**. (0.06 seconds)

Complementary concurrent cooperative multi-processing multi-tasking processing system using...

US Pat. 5566349 - Filed May 16, 1994

Multiple databases—The ... **Replication** transparency—The ... To the end user and the application programmer, the **replication** is transparent; ...

Method and system for object-based relational distributed databases

US Pat. 5724575 - Filed Jul 1, 1996 - ActaMed Corp.

The duplicative storage of information 10 in autonomous **databases** is inefficient ... This system envisions maintaining **multiple** copies of a set of data on ...

Method and apparatus for peer-to-peer data replication

US Pat. 5806075 - Filed Jan 14, 1997 - Oracle Corporation

... a networked environment containing copies data resident at **multiple** sites.
... Before **replication**, the two **databases** reflect only the order transactions ...

Method and apparatus for defining and configuring modules of data objects and programs in a ...

US Pat. 5724556 - Filed Apr 14, 1995 - Oracle Corporation

Other **databases** of the distributed system, ie The present invention relates to ... Although **replication** increases the herein, typically include computers, ...

System and method for incremental change synchronization between **multiple** copies of data

US Pat. 6202085 - Filed Dec 6, 1996 - Microsoft Corporation

Unfortunately, this simple model does not work well in a **replication** ... Finally, the present invention allows synchronization with third-party **databases** ...

Preforming concurrent transactions in a replicated database environment

US Pat. 5781910 - Filed Sep 13, 1996 - Stratus Computer, Inc.

to a replicated inherent costs associated with the **replication** of **databases**. ...
order to manage **multiple databases** and handle the execution amounts of data ...

Federated information management (FIM) system and method for providing data site filtering and ...

US Pat. 5634053 - Filed Aug 29, 1995 - Hughes Aircraft Company

... to process the global query for access to data in **multiple databases**. ...

Fragment **Replication**. The Optimizer decides which fragments need to be ...

Method and apparatus for database fault tolerance with instant transaction **replication** using off ...

US Pat. 6421688 - Filed Mar 2, 2000 - Parallel Computers Technology, Inc.

Among all different data service technologies, such as flat files, indexed files, **multiple** linked files or **databases**, database is most 20 preferred. ...

Concurrently applying redo records to backup database in a log sequence using single queue ...

US Pat. 5170480 - Filed Sep 25, 1989 - International Business Machines Corporation
In the prior art, database **replication** is exemplified in the use of ... 40 between
the **databases**, and utilize database serialization in the form of locking. ...

Multi-tiered indexing method for partitioned data

US Pat. 5551027 - Filed Sep 11, 1995 - International Business Machines Corporation
If no single index which references data in **multiple** partitions is ... comes with
a severe performance penalty which is disabling in very large **databases**. ...

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Patents

Patents 21 - 30 on **replication multiple databases**. (0.04 seconds)

System for activating new service in client server network by reconfiguring the multilayer ...

US Pat. 5548726 - Filed Dec 17, 1993 - TaliGeni, Inc.

... nodes or limit **replication** by partitioning the database in some manner. ...
to insure data consistency if **multiple** sources can update the **databases** ...

System for merging virtual partitions of a distributed database

US Pat. 4853843 - Filed Dec 18, 1987 - Tektronix, Inc.

Optionally the defining user may specify a default **replication** factor for the
... in "Multiple Version Management of Hypothetical **Databases**" published 1985 ...

Software installation and recovery system

US Pat. 6490722 - Filed Oct 20, 1999 - TiVo Inc.

Basic attributes are replicated between **databases**, whereas derived ... meaning that
the same object may be presented for **replication multiple** times. ...

Independent distributed database system

US Pat. 5924094 - Filed Nov 1, 1996 - Current Network Technologies Corporation

Currently there are two main approaches to sharing relational **databases**: traditional
distributed **databases**, and traditional **replication** systems. ...

Method and system for data replication

US Pat. 6615223 - Filed Feb 29, 2000 - Oracle International Corporation

EIN-DOR, Phillip et al., "Natural Language Access to **Multiple Databases**: A Model
and a Prototype", Journal of Management Information Systems, Summer 1995, ...

Method and apparatus for workgroup information replication

US Pat. 6182117 - Filed Jun 12, 1997 - Netscape Communications Corporation

A **replication** agent copies and synchronizes **databases**, com- w puter data ...
used) and its database (or **databases** where **multiple** copies of the same database ...

Efficient synchronous and asynchronous database replication

US Pat. 7158998 - Filed Jul 31, 2002 - Cingular Wireless II, LLC

In one embodiment, the **replication** driver: 1. Monitors the availability of **multiple**
databases. 2. Manages connections to **multiple** local and remote **databases** ...

System and method for selective replication of databases within a workflow, enterprise, and mail ...

US Pat. 6574617 - Filed Jun 19, 2000 - International Business Machines Corporation

25 is a flow diagram of a process for enabling **multiple databases** for ...

Keep Track of Offline Users B.2 Set Up Selective **Replication** B.3 Set Up Agents for ...

Calibration of logical cost formulae for queries in a heterogeneous DBMS using synthetic database

US Pat. 5412806 - Filed Aug 20, 1992 - Hewlett-Packard Company

BACKGROUND OF THE INVENTION **mentation, and replication transparency mentioned in**
... is that retrievals can be directed to the DC and Portland **databases**. ...

Distributed computing architecture

US Pat. 6112304 - Filed Aug 27, 1997 - Zipsoft, Inc.

"The model-assisted global query system for **multiple databases** in distributed

... "Replication Everywhere", R. Dobson, Byte, Apr. 1997, pp. 34, 36. ...

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